

COOLING APPARATUS BOILING AND CONDENSING REFRIGERANT
WITH A REFRIGERANT VAPOR PASSAGE HAVING
A LARGER CROSS SECTIONAL AREA

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ABSTRACT OF THE DISCLOSURE

10 Tubes 3 are provided substantially upright on an
upper surface of a refrigerant container 2 by inserting
lower end portions thereof into inserting holes 5 of the
refrigerant container 2. The tube 3A, differed from the
tubes 3B, has a trumpet shape which is suddenly increased
15 in its passage cross section towards the lower end
opening portion. Thus, most of refrigerant vapor boiled
and evaporated in the refrigerant container 2 can be
collectively introduced into the tube 3A located within
the boiling area. The refrigerant vapor entered a header
20 tank 4 from the tube 3A is diffused in the header tank 4,
and is introduced into the tubes 3B located out of the
boiling area. The condensate produced by cooling the
refrigerant vapor upon passing through the tubes 3B can
be circulated into the refrigerant container 2.

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